

CUMULATIVE INDEXES

CONTRIBUTING AUTHORS, VOLUMES 46-50

A

Adams MWW, 47:627-58
 Aharonowitz Y, 46:461-95
 Allen BL, 48:585-617
 Altendorf K, 50:791-824
 Ames GF-L, 47:291-319
 Andrew PW, 47:89-115
 Andrews NW, 49:175-200
 Appleman JA, 50:645-77
 Arvin AM, 50:59-100
 Ascher MS, 46:533-64

B

Bartlett MS, 50:645-77
 Baumann L, 49:55-94
 Baumann P, 49:55-94
 Beachy RN, 47:739-63
 Bej AK, 47:139-66
 Beppu T, 46:377-98
 Berberof M, 48:25-52
 Berens C, 48:345-69
 Bergstrom JD, 49:607-39
 Bills GF, 49:607-39
 Blair DF, 49:489-522
 Blanchard A, 48:687-712
 Bobik TA, 50:137-81
 Boe L, 47:139-66
 Borst P, 49:427-60
 Boulnois GJ, 47:89-115
 Bouvier J, 47:821-53
 Brock TD, 49:1-28
 Bulawa CE, 47:505-34
 Bull AT, 46:219-52
 Burlage RS, 48:291-309
 Burleigh BA, 49:175-200
 Byrne K, 49:607-39

C

Caldwell DE, 49:711-45
 Cammack R, 46:277-305
 Campbell A, 48:193-222
 Cardon LR, 48:619-54
 Casey WM, 49:95-116
 Cerami A, 46:695-729
 Chater KF, 47:685-713
 Churchward GG, 49:367-97
 Citovsky V, 47:167-97
 Clark MA, 49:55-94

Cocito CG, 46:95-116
 Coene MM, 46:95-116
 Cohen G, 46:461-95
 Condemine G, 50:213-57
 Coplin DL, 46:307-46
 Costerton JW, 49:711-45
 Cross GAM, 47:385-411

D

Davis BD, 46:1-33
 Dean DR, 49:335-66
 Debellé F, 46:497-531
 Debono M, 48:471-97
 Deckers-Hebestreit G, 50:791-824
 DeLuca NA, 49:675-710
 Dénarié J, 46:497-531
 Descoteaux A, 46:65-94
 de Villiers E-M, 48:427-47
 Doige CA, 47:291-319
 Donachie WD, 47:199-230
 Donadio S, 47:875-912
 Draths KM, 49:557-79
 Dufresne C, 49:607-39
 Duncan K, 49:641-73
 Dybvig K, 50:25-57

E

Eichinger D, 48:499-523
 Embley TM, 48:257-89
 Englund PT, 49:117-43
 Esko JD, 48:139-62
 Estes MK, 49:461-87

F

Fairlamb AH, 46:695-729
 Fauci AS, 50:825-54
 Feagin JE, 48:81-104
 Felix CR, 47:791-819
 Feng P, 48:401-26
 Fenical W, 48:559-84
 Ferry JG, 49:305-33
 Fink DJ, 49:675-710
 Finnerty WR, 46:193-218
 Fisher K, 49:335-66
 Fitchen JH, 47:739-63
 Foster JW, 49:145-74
 Foster PL, 47:467-504

Friedrich B, 47:351-83
 Frost JW, 49:557-79
 Fujii I, 49:201-38
 Fuqua C, 50:727-51

G

Gaal T, 50:645-77
 Garcia-Sastre A, 47:765-90
 Gershon AA, 50:59-100
 Gillin FD, 50:679-705
 Givskov M, 47:139-66
 Glorioso JC, 49:675-710
 Goldhar J, 49:239-76
 Gonzalez-Scarano F, 47:117-38
 Goodfellow M, 46:219-52
 Gordee RS, 48:471-97
 Gourse RL, 50:645-77
 Greenberg EP, 50:727-51
 Griot C, 47:117-38
 Guerinet ML, 48:743-72

H

Hagedorn S, 48:773-800
 Hager KM, 48:139-62
 Hajduk SL, 48:139-62
 Hansen JN, 47:535-64
 Harayama S, 46:565-601
 Harwood CS, 50:553-90
 Hengge-Aronis R, 48:53-80
 Hernandez-Pando R, 50:259-84
 Hill TM, 46:603-33
 Hillen W, 48:345-69
 Hoch JA, 47:441-65
 Hoet PP, 46:95-116
 Holloway BW, 47:659-84
 Höök M, 48:585-617
 Horinouchi S, 46:377-98
 Howard RJ, 50:491-512
 Hugouvieux-Cotte-Pattat N, 50:213-57
 Hutchinson CR, 49:201-38

J

Janssen DB, 48:163-91
 Jensen LB, 47:139-66
 Jensen PR, 48:559-84
 Jerris RC, 50:707-25

884 CUMULATIVE INDEXES

K

Kaiser D, 46:117-39
 Kaphammer B, 48:773-800
 Karlin S, 48:619-54
 Katz L, 47:875-912
 Keisari Y, 49:239-76
 Kim SK, 46:117-39
 Klier AF, 46:429-59
 Klier CM, 50:513-52
 Koch AL, 50:317-48
 Kok M, 46:565-601
 Kolenbrander PE, 50:513-52
 Kolter R, 46:141-63; 47:855-74
 Korber DR, 49:711-45
 Kristensen CS, 47:139-66
 Kuo C-T, 48:291-309
 Kuspa A, 46:117-39

L

Lai C-Y, 49:55-94
 Lappin-Scott HM, 49:711-45
 Lawrence JG, 50:137-81
 Leigh JA, 46:307-46
 Leschine SB, 49:399-426
 Lewandowski Z, 49:711-45
 Lin R, 49:747-75
 Lindow SE, 47:913-44
 Lipscomb JD, 48:371-99
 Liu H-w, 48:223-56
 Ljungdahl LG, 47:791-819
 Loewen PC, 48:53-80
 Lory S, 47:565-96
 Lovley DR, 47:263-90

M

Magasanik B, 48:1-24
 Mancinelli RL, 49:581-605
 Martin JF, 46:461-95
 Marzluf GA, 47:31-55
 Mason JR, 46:277-305
 McCaffery JM, 50:679-705
 McGavin MJ, 48:585-617
 McKerrow JH, 47:821-53
 McKinlay MA, 46:635-54
 Melnick JL, 49:461-87; 50:1-23
 Metcalf TG, 49:461-87
 Miller JH, 50:625-43
 Miller KJ, 50:101-36
 Mitchell TJ, 47:89-115
 Molin S, 47:139-66
 Montagnier L, 48:687-712
 Mor A, 49:277-304
 Moran NA, 49:55-94
 Moreno F, 46:141-63
 Mori H, 47:321-50
 Msadek T, 46:429-59

N

Nagai H, 47:321-50
 Nallin-Ornstead M, 49:607-39
 Nasser W, 50:213-57
 Nathanson N, 47:117-38
 Nealson KH, 48:311-43
 Neidle EL, 46:565-601
 Newman EB, 49:747-75
 Nicolas P, 49:277-304
 Nilsen TW, 47:413-40
 Nussenzweig V, 48:499-523

O

Ofek I, 49:239-76
 Omura S, 47:57-87
 Ouellette M, 49:427-60

P

Page BD, 47:231-61
 Palese P, 47:765-90
 Pantaleo G, 50:825-54
 Parales RE, 50:553-90
 Parks LW, 49:95-116
 Paton JC, 47:89-115
 Patti JM, 48:585-617
 Pays E, 48:25-52
 Pereira MEA, 48:499-523
 Persing DH, 50:349-73
 Peters JW, 49:335-66
 Pevear DC, 46:635-54
 Pfennig N, 47:1-29
 Phung LT, 50:753-89
 Price RW, 46:655-93
 Pries F, 48:163-91
 Prusiner SB, 48:655-86

R

Ramos JL, 47:139-66
 Rapoport G, 46:429-59
 Reeve JN, 46:165-91
 Regnery RL, 50:707-25
 Reiner DS, 50:679-705
 Reverchon S, 50:213-57
 Reznikoff WS, 47:945-63
 Roberts IS, 50:285-315
 Roessner CA, 50:467-90
 Rook GAW, 50:259-84
 Rosenberg C, 46:497-531
 Rosenthal PJ, 47:821-53
 Ross W, 50:645-705
 Rossmann MG, 46:635-54
 Roth JR, 50:137-81
 Routhbakhsh D, 49:55-94
 Ruby EG, 50:591-624

S

Sadowsky MJ, 46:399-428
 Saffarini D, 48:311-43
 Schell MA, 47:597-626
 Schenckman S, 48:499-523
 Schwartz E, 47:351-83
 Scott JR, 49:367-97
 Scott AI, 50:467-90
 Setlow P, 49:29-54
 Shannon MJR, 47:715-38
 Shapira M, 48:449-70
 Shapiro TA, 49:117-43
 Sharon N, 49:239-76
 Sheppard HW, 46:533-64
 Shimizu Y, 50:431-65
 Siegle DA, 47:855-74
 Silver S, 50:753-89
 Simons RW, 48:713-42
 Slater JH, 46:219-52
 Smith AE, 49:807-38
 Snyder M, 47:231-61
 Sommer JM, 48:105-38
 Spain JC, 49:523-55
 Spector MP, 49:145-74
 Spencer DC, 46:655-93
 Stackebrandt E, 48:257-89
 Steffan RJ, 48:525-57
 Strom MS, 47:565-96
 Sun E, 47:821-53
 Swaminathan B, 48:401-26

T

Takle GB, 47:385-411
 Tanaka Y, 47:57-87
 Taylor DE, 46:35-64
 Taylor JM, 46:253-76
 Thorson JS, 48:223-56
 Tibayrenc M, 50:401-29
 Timmis KN, 48:525-57
 Tormo A, 47:855-74
 Triplett EW, 46:399-428
 Turco SJ, 46:65-94

U

Unterman R, 47:715-38;
 48:525-57

V

Valent B, 50:491-512
 van der Ploeg JR, 48:163-91
 Vanhamme L, 48:25-52
 van Pée K-H, 50:375-99
 Voelker LL, 50:25-57

W

Wagner EGH, 48:713-42
Wang CC, 48:105-38
Warren RAJ, 50:183-212
Whelen AC, 50:349-73
Whittaker CJ, 50:513-52
Wickner RB, 46:347-75

Wilson M, 47:913-44
Winans SC, 50:727-51
Wood JM, 50:101-36

Y

Yayanos AA, 49:777-805

Young DB, 49:641-73
Yura T, 47:321-50

Z

Zambryski P, 47:167-97
Zilberstein D, 48:449-70
zur Hausen H, 48:427-47



CHAPTER TITLES, VOLUMES 46-50

PREFATORY CHAPTERS

Science and Politics: Tensions Between the Head and the Heart	BD Davis	46:1-33
Reflections of a Microbiologist, or How to Learn from the Microbes	N Pfennig	47:1-29
A Charmed Life	B Magasanik	48:1-24
The Road to Yellowstone-and Beyond	TD Brock	49:1-28
My Role in the Discovery and Classification of the Enteroviruses	JL Melnick	50:1-23

ANIMAL PATHOGENS AND DISEASES

Genetics of <i>Campylobacter</i> and <i>Helicobacter</i>	DE Taylor	46:35-64
The Lipophosphoglycan of <i>Leishmania</i> Parasites	SJ Turco, A Descoteaux	46:65-94
The Structure and Replication of Hepatitis Delta Virus	JM Taylor	46:253-76
The Natural History and Pathogenesis of HIV Infection	HW Sheppard, MS Ascher	46:533-64
Treatment of the Picornavirus Common Cold by Inhibitors of Viral Uncoating and Attachment	MA McKinlay, DC Pevear, MG Rossmann	46:635-54
Human Immunodeficiency Virus and the Central Nervous System	DC Spencer, RW Price	46:655-93
Metabolism and Functions of Trypanothione in the Kinetoplastida	AH Fairlamb, A Cerami	46:695-729
Molecular Analysis of the Pathogenicity of <i>Streptococcus pneumoniae</i> : The Role of Pneumococcal Proteins	JC Paton, PW Andrew, GJ Boulnois, TJ Mitchell	47:89-115
The Proteases and Pathogenicity of Parasitic Protozoa	JH McKerrow, E Sun, PJ Rosenthal, J Bouvier	47:821-53
Genetic Controls for the Expression of Surface Antigens in African Trypanosomes	E Pays, L Vanhamme, M Berberof	48:25-52
The Extrachromosomal DNAs of Apicomplexan Parasites	JE Feagin	48:81-104
Targeting Proteins to the Glycosomes of African Trypanosomes	JM Sommer, CC Wang	48:105-38
Human High Density Lipoprotein Killing of African Trypanosomes	SL Hajduk, KM Hager, JD Esko	48:139-62
Rapid Detection of Food-Borne Pathogenic Bacteria	B Swaminathan, P Feng	48:401-26
Human Papillomaviruses	H zur Hausen, E-M de Villiers	48:427-47
The Role of pH and Temperature in the Development of <i>Leishmania</i> Parasites	D Zilberstein, M Shapira	48:449-70
Structural and Functional Properties of <i>Trypanosoma Trans-Sialidase</i>	S Schenkman, D Eichinger, MEA Pereira, V Nussenzweig	48:499-523
MSCRAMM-Mediated Adherence of Microorganisms to Host Tissues	JM Patti, BL Allen, MJ McGavin, M Höök	48:585-617
Biology and Genetics of Prion Diseases	SB Prusiner	48:655-86

888 CHAPTER TITLES

AIDS-Associated Mycoplasmas	A Blanchard, L Montagnier	48:687-712
Peptides as Weapons Against Microorganisms in the Chemical Defense System of Vertebrates	P Nicolas, A Mor	49:277-304
New Mechanisms of Drug Resistance in Parasitic Protozoa	P Borst, M Ouellette	49:427-60
Prospects for New Interventions in the Treatment and Prevention of Mycobacterial Disease	DB Young, K Duncan	49:641-73

APPLIED MICROBIOLOGY AND ECOLOGY

The Biology and Genetics of the Genus <i>Rhodococcus</i>	WR Finnerty	46:193-218
Biodiversity as a Source of Innovation in Biotechnology	AT Bull, M Goodfellow, JH Slater	46:219-52
The Electron Transport Proteins of Hydroxylating Bacterial Dioxygenases	JR Mason, R Cammack	46:277-305
Penicillin and Cephalosporin Biosynthetic Genes: Structure, Organization, Regulation, and Evolution	Y Aharonowitz, G Cohen, JF Martin	46:461-95
Functional and Evolutionary Relationships Among Diverse Oxygenases	S Harayama, M Kok, EL Neidle	46:565-601
Agroactive Compounds of Microbial Origin	Y Tanaka, S Omura	47:57-87
Suicidal Genetic Elements and Their Use in Biological Containment of Bacteria	S Molin, L Boe, LB Jensen, CS Kristensen, M Givskov, JL Ramos, AK Bej	47:139-66
Dissimilatory Metal Reduction	DR Lovley	47:263-90
Molecular Biology of Hydrogen Utilization in Aerobic Chemolithotrophs	B Friedrich, E Schwartz	47:351-83
Evaluating Bioremediation: Distinguishing Fact from Fiction	MJR Shannon, R Unterman	47:715-38
Release of Recombinant Microorganisms	M Wilson, SE Lindow	47:913-44
Pathways and Mechanisms in the Biogenesis of Novel Deoxysugars by Bacteria	H-w Liu, JS Thorson	48:223-56
Living Biosensors for the Management and Manipulation of Microbial Consortia	RS Burlage, C-T Kuo	48:291-309
Iron and Manganese in Anaerobic Respiration: Environmental Significance, Physiology, and Regulation	KH Nealson, D Saffarini	48:311-43
Biochemistry of the Soluble Methane Monooxygenase	JD Lipscomb	48:371-99
Rapid Detection of Food-Borne Pathogenic Bacteria	B Swaminathan, P Feng	48:401-26
Designing Microorganisms for the Treatment of Toxic Wastes	KN Timmis, RJ Steffan, R Unterman	48:525-57
Strategies for the Discovery of Secondary Metabolites from Marine Bacteria: Ecological Perspectives	PR Jensen, W Fenical	48:559-84
Microbial Iron Transport	ML Guerinet	48:743-72
Microbial Biocatalysis in the Generation of Flavor and Fragrance Chemicals	S Hagedorn, B Kaphammer	48:773-800
Cellulose Degradation in Anaerobic Environments	SB Leschine	49:399-426
Environmental Virology: From Detection of Virus in Sewage and Water by Isolation to Identification by Molecular Biology—A Trip Over 50 Years	TG Metcalf, JL Melnick, MK Estes	49:461-87
Biodegradation of Nitroaromatic Compounds	JC Spain	49:523-55
Biocatalytic Syntheses of Aromatics from D-Glucose: Renewable Microbial Sources of Aromatic Compounds	JW Frost, KM Draths	49:557-79

The Regulation of Methane Oxidation in Soil Microbial Biofilms	RL Mancinelli JW Costerton, Z Lewandowski, DE Caldwell, DR Korber, HM Lappin-Scott AA Yayanos	49:581-605 49:711-45 49:777-805
Microbiology to 10,500 Meters in the Deep Sea Regulation of Pectinolysis in <i>Erwinia chrysanthemi</i>	N Hugouvieux-Cotte-Pattat, G Condemine, W Nasser, S Reverchon	50:213-57
The Role of Nucleic Acid Amplification and Detection in the Clinical Microbiology Laboratory	AC Whelen, DH Persing	50:349-73
Biosynthesis of Halogenated Metabolites by Bacteria	K-H van Pée Y Shimizu	50:375-99 50:431-65
Microalgal Metabolites: A New Perspective Genetically Engineered Synthesis of Natural Products: From Alkaloids to Corrins	CA Roessner, AI Scott CJ Whittaker, CM Klier, PE Kolenbrander	50:467-90 50:513-52
Mechanisms of Adhesion by Oral Bacteria		
Census and Consensus in Bacterial Ecosystems: The LuxR-LuxI Family of Quorum-Sensing Transcriptional Regulators	C Fuqua, SC Winans, EP Greenberg	50:727-51
CHEMOTHERAPY AND CHEMOTHERAPEUTIC AGENTS		
Genetics of Ribosomally Synthesized Peptide Antibiotics	R Kolter, F Moreno	46:141-63
Penicillin and Cephalosporin Biosynthetic Genes: Structure, Organization, Regulation, and Evolution	Y Aharonowitz, G Cohen, JF Martin	46:461-95
ATP-Dependent Transport Systems in Bacteria and Humans: Relevance to Cystic Fibrosis and Multidrug Resistance	CA Doige, GF-L Ames	47:291-319
Antibiotics Synthesized by Posttranslational Modification	JN Hansen	47:535-64
Polyketide Synthesis: Prospects for Hybrid Antibiotics	L Katz, S Donadio	47:875-912
Mechanisms Underlying Expression of Tn10-Encoded Tetracycline Resistance	W Hillen, C Berens	48:345-69
Antibiotics that Inhibit Fungal Cell Wall Development	M Debono, RS Gordee	48:471-97
Strategies for the Discovery of Secondary Metabolites from Marine Bacteria: Ecological Perspectives	PR Jensen, W Fenical	48:559-84
Polyketide Synthase Gene Manipulation: A Structure-Function Approach in Engineering Novel Antibiotics	CR Hutchinson, I Fujii	49:201-38
Discovery, Biosynthesis, and Mechanism of Action of the Zearagoic Acids: Potent Inhibitors of Squalene Synthase	JD Bergstrom, C Dufresne, GF Bills, M Nallin-Omstead, K Byrne	49:607-39
DIVERSITY AND SYSTEMATICS		
Molecular Biology of Methanogens	JN Reeve	46:165-91
Biodiversity as a Source of Innovation in Biotechnology	AT Bull, M Goodfellow, JH Slater	46:219-52
Functional and Evolutionary Relationships Among Diverse Oxygenases	S Harayama, M Kok, EL Neidle	46:565-601
Adaptive Mutation: The Uses of Adversity Genetics for All Bacteria	PL Foster BW Holloway	47:467-504 47:659-84
The Molecular Phylogeny and Systematics of the Actinomycetes	TM Embley, E Stackebrandt	48:257-89

Computational DNA Sequence Analysis
Genetics, Physiology, and Evolutionary
Relationships of the Genus *Buchnera*:
Intracellular Symbionts of Aphids

S Karlin, LR Cardon 48:619-54

P Baumann, L Baumann, C-Y Lai,
D Rouhbakhsh, NA Moran,
MA Clark 49:55-94

GENETICS AND PHYSIOLOGY

Genetics of *Campylobacter* and *Helicobacter*
Replication Cycle of *Bacillus subtilis*

DE Taylor 46:35-64

Hydroxymethyluracil-Containing Phages
Genetics of Ribosomally Synthesized Peptide
Antibiotics

PP Hoet, MM Coene, CG Cocito 46:95-116

Molecular Biology of Methanogens
The Biology and Genetics of the Genus
Rhodococcus

R Kolter, F Moreno 46:141-63
JN Reeve 46:165-91

Double-Stranded and Single-Stranded RNA
Viruses of *Saccharomyces cerevisiae*

WR Finnerty 46:193-218

Genetics of Competition for Nodulation of
Legumes

RB Wickner 46:347-75
EW Triplett, MJ Sadowsky 46:399-428

Positive Regulation in the Gram-Positive
Bacterium: *Bacillus subtilis*

A Klier, T Msadek, G Rapoport 46:429-59

Penicillin and Cephalosporin Biosynthetic
Genes: Structure, Organization, Regulation,
and Evolution

Y Aharonowitz, G Cohen, JF Martin 46:461-95

Signaling and Host Range Variation in
Nodulation

J Dénarié, F Debellé, C Rosenberg 46:497-531

Suicidal Genetic Elements and Their Use in
Biological Containment of Bacteria

S Molin, L Boe, LB Jensen, CS
Kristensen, M Givskov, JL Ramos,
AK Bej 47:139-66

Genetics and Molecular Biology of Chitin
Synthesis in Fungi

CE Bulawa 47:505-34

Molecular Biology of the LysR Family of
Transcriptional Regulators

MA Schell 47:597-626

Genetics for All Bacteria

BW Holloway 47:659-84
KF Chater 47:685-713

Genetics of Differentiation in *Streptomyces*
Genetic Manipulation of Negative-Strand RNA
Virus Genomes

A García-Sastre, P Palese 47:765-90
M Wilson, SE Lindow 47:913-44

Release of Recombinant Microorganisms
Genetic Controls for the Expression of Surface
Antigens in African Trypanosomes

E Pays, L Vanhamme, M Berberof 48:25-52

The Role of the Sigma Factor σ^S (KatF) in
Bacterial Global Regulation

PC Loewen, R Hengge-Aronis 48:53-80

The Extrachromosomal DNAs of Apicomplexan
Parasites

JE Feagin 48:81-104

Targeting Proteins to the Glycosomes of African
Trypanosomes

JM Sommer, CC Wang 48:105-38

Genetics and Biochemistry of Dehalogenating
Enzymes

DB Janssen, F Pries, JR van der Ploeg 48:163-91

Comparative Molecular Biology of Lambdaoid
Phages

A Campbell 48:193-222

Mechanisms Underlying Expression of
Tn10-Encoded Tetracycline Resistance

W Hillen, C Berens 48:345-69

Designing Microorganisms for the Treatment of
Toxic Wastes

KN Timmis, RJ Steffan, R Unterman 48:525-57
S Karlin, LR Cardon 48:619-54
SB Prusiner 48:655-86

Computational DNA Sequence Analysis
Biology and Genetics of Prion Diseases

EGH Wagner, RW Simons 48:713-42

Antisense RNA Control in Bacteria, Phages, and
Plasmids

Mechanisms for the Prevention of Damage to DNA in Spores of <i>Bacillus</i> Species	P Setlow	49:29-54
Genetics, Physiology, and Evolutionary Relationships of the Genus <i>Buchnera</i> : Intracellular Symbionts of Aphids	P Baumann, L Baumann, C-Y Lai, D Rouhbakhsh, NA Moran, MA Clark	49:55-94
The Structure and Replication of Kinetoplast DNA	TA Shapiro, PT Englund	49:117-43
Polyketide Synthase Gene Manipulation: A Structure-Function Approach in Engineering Novel Antibiotics	CR Hutchinson, I Fujii	49:201-38
Nitrogenase Structure and Function: A Biochemical-Genetic Perspective	JW Peters, K Fisher, DR Dean	49:335-66
Conjugative Transposition	JR Scott, GG Churchward	49:367-97
Leucine-Responsive Regulatory Protein: A Global Regulator of Gene Expression in <i>E. coli</i>	EB Newman, R Lin	49:747-75
Molecular Biology of Mycoplasmas	K Dybvig, LL Voelker	50:25-57
Osmoadaptation by Rhizosphere Bacteria	KJ Miller, JM Wood	50:101-36
Cobalamin (Coenzyme B ₁₂): Synthesis and Biological Significance	JR Roth, JG Lawrence, TA Bobik	50:137-81
Microbial Hydrolysis of Polysaccharides	RAJ Warren	50:183-212
The Biochemistry and Genetics of Capsular Polysaccharide Production in Bacteria	IS Roberts	50:285-315
What Size Should a Bacterium Be? A Question of Scale	AL Koch	50:317-48
Breaking and Entering: Host Penetration by the Fungal Rice Blast Pathogen <i>Magnaporthe grisea</i>	RJ Howard, B Valent	50:491-512
Spontaneous Mutators in Bacteria: Insights into Pathways of Mutagenesis and Repair	JH Miller	50:625-43
rRNA Transcription and Growth Rate-Dependent Regulation of Ribosome Synthesis in <i>Escherichia coli</i>	RL Gourse, T Gaal, MS Bartlett, JA Appleman, W Ross	50:645-77
Cell Biology of the Primitive Eukaryote <i>Giardia lamblia</i>	FD Gillin, DS Reiner, JM McCaffery	50:679-705
Bacterial Heavy Metal Resistance: New Surprises	S Silver, LT Phung	50:753-89
The F ₀ F ₁ -Type ATP Synthases of Bacteria: Structure and Function of the F ₀ Complex	G Deckers-Hebestreit, K Altendorf	50:791-824
IMMUNOLOGY		
Antibiotics Synthesized by Posttranslational Modification	JN Hansen	47:535-64
Polyketide Synthesis: Prospects for Hybrid Antibiotics	L Katz, S Donadio	47:875-912
Polyketide Synthase Gene Manipulation: A Structure-Function Approach in Engineering Novel Antibiotics	CR Hutchinson, I Fujii	49:201-38
MORPHOLOGY, ULTRASTRUCTURE, AND DIFFERENTIATION		
The Lipophosphoglycan of <i>Leishmania</i> Parasites	SJ Turco, A Descoteaux	46:65-94
Control of Cell Density and Pattern by Intercellular Signaling in <i>Myxococcus</i> Development	SK Kim, D Kaiser, A Kuspa	46:117-39
Genetics of Competition for Nodulation of Legumes	EW Triplett, MJ Sadowsky	46:399-428
Chromosome Segregation in Yeast	BD Page, M Snyder	47:231-61

892 CHAPTER TITLES

The Surface <i>Trans</i> -Sialidase Family of <i>Trypanosoma cruzi</i>	GAM Cross, GB Takle	47:385-411
<i>Trans</i> -Splicing of Nematode Premessenger RNA	TW Nilsen	47:413-40
Regulation of the Phosphorelay and the Initiation of Sporulation in <i>Bacillus subtilis</i>	JA Hoch	47:441-65
Molecular Biology of the LysR Family of Transcriptional Regulators	MA Schell	47:597-626
Genetics of Differentiation in <i>Streptomyces</i>	KF Chater	47:685-713
The Cellulosome: The Exocellular Organelle of <i>Clostridium</i>	CR Felix, LG Ljungdahl	47:791-819
The Tn5 Transposon	WS Reznikoff	47:945-63
Targeting Proteins to the Glycosomes of African Trypanosomes	JM Sommer, CC Wang	48:105-38
Antibiotics that Inhibit Fungal Cell Wall Development	M Debono, RS Gordee	48:471-97
Structural and Functional Properties of <i>Trypanosoma Trans</i> -Sialidase	S Schenkman, D Eichinger, MEA Pereira, V Nussenzweig	48:499-523
MSCRAMM-Mediated Adherence of Microorganisms to Host Tissues	JM Patti, BL Allen, MJ McGavin, M Höök	48:585-617
The Structure and Replication of Kinetoplast DNA	TA Shapiro, PT Englund	49:117-43
The Mechanisms of <i>Trypanosoma cruzi</i> Invasion of Mammalian Cells	BA Burleigh, NW Andrews	49:175-200
Nitrogenase Structure and Function: A Biochemical-Genetic Perspective	JW Peters, K Fisher, DR Dean	49:335-66
How Bacteria Sense and Swim	DF Blair	49:489-522
Leucine-Responsive Regulatory Protein: A Global Regulator of Gene Expression in <i>E.</i> <i>coli</i>	EB Newman, R Lin	49:747-75
ORGANISMIC MICROBIOLOGY		
Toward a Unified Evolutionary Genetics of Microorganisms	M Tibayrenc	50:401-29
The β -Ketoadipate Pathway and the Biology of Self-Identity	CS Harwood, RE Parales	50:553-90
Lessons from a Cooperative Bacterial-Animal Association: The <i>Vibrio fischeri</i> - <i>Euprymna</i> <i>sclopes</i> Light Organ Symbiosis	EG Ruby	50:591-624
PATHOGENESIS AND CONTROL		
The Pathogenesis of Tuberculosis	GAW Rook, R Hernandez-Pando	50:259-84
Will the Real Agent of Cat-Scratch Disease Please Stand Up?	RC Jerri, RL Regnery	50:707-25
PHYSIOLOGY, GROWTH, AND NUTRITION		
The Electron Transport Proteins of Hydroxylating Bacterial Dioxygenases	JR Mason, R Cammack	46:277-305
Autoregulatory Factors and Communication in Actinomycetes	S Horinouchi, T Beppu	46:377-98
Positive Regulation in the Gram-Positive Bacterium: <i>Bacillus subtilis</i>	A Klier, T Msadek, G Rapoport	46:429-59
Arrest of Bacterial DNA Replication	TM Hill	46:603-33
Metabolism and Functions of Trypanothione in the Kinetoplastida	AH Fairlamb, A Cerami	46:695-729
Regulation of Sulfur and Nitrogen Metabolism in Filamentous Fungi	GA Marzluf	47:31-55
Transport of Nucleic Acids Through Membrane Channels: Snaking Through Small Holes	V Citovsky, P Zambryski	47:167-97
The Cell Cycle of <i>Escherichia coli</i>	WD Donachie	47:199-230

Regulation of the Heat-Shock Response in Bacteria	T Yura, H Nagai, H Mori	47:321-50
Genetics and Molecular Biology of Chitin Synthesis in Fungi	CE Bulawa	47:505-34
Structure-Function and Biogenesis of the Type IV Pili	MS Strom, S Lory	47:565-96
Enzymes and Proteins from Organisms that Grow Near and Above 100°C	MWW Adams	47:627-58
The Stationary Phase of the Bacterial Life Cycle	R Kolter, DA Siegle, A Tormo	47:855-74
The Role of the Sigma Factor σ^S (KatF) in Bacterial Global Regulation	PC Loewen, R Hengge-Aronis	48:53-80
Human High Density Lipoprotein Killing of African Trypanosomes	SL Hajduk, KM Hager, JD Esko	48:139-62
Genetics and Biochemistry of Dehalogenating Enzymes	DB Janssen, F Pries, JR van der Ploeg	48:163-91
Pathways and Mechanisms in the Biogenesis of Novel Deoxysugars by Bacteria	H-w Liu, JS Thorson	48:223-56
Living Biosensors for the Management and Manipulation of Microbial Consortia	RS Burlage, C-T Kuo	48:291-309
Iron and Manganese in Anaerobic Respiration: Environmental Significance, Physiology, and Regulation	KH Nealson, D Saffarini	48:311-43
Biochemistry of the Soluble Methane Monooxygenase	JD Lipscomb	48:371-99
The Role of pH and Temperature in the Development of <i>Leishmania</i> Parasites	D Zilberstein, M Shapira	48:449-70
Designing Microorganisms for the Treatment of Toxic Wastes	KN Timmis, RJ Steffan, R Unterman	48:525-57
Antisense RNA Control in Bacteria, Phages, and Plasmids	EGH Wagner, RW Simons	48:713-42
Microbial Iron Transport	ML Guerinet	48:743-72
Microbial Biocatalysis in the Generation of Flavor and Fragrance Chemicals	S Hagedorn, B Kaphammer	48:773-800
Mechanisms for the Prevention of Damage to DNA in Spores of <i>Bacillus</i> Species	P Setlow	49:29-54
Physiological Implications of Sterol Biosynthesis in Yeast	LW Parks, WM Casey	49:95-116
How <i>Salmonella</i> Survive Against the Odds	JW Foster, MP Spector	49:145-74
Nonopsonic Phagocytosis of Microorganisms	I Ofek, J Goldhar, Y Keisari, N Sharon	49:239-76
CO Dehydrogenase	JG Ferry	49:305-33
The Regulation of Methane Oxidation in Soil	RL Mancinelli	49:581-605
PLANT-BACTERIA INTERACTIONS		
Exopolysaccharides in Plant-Bacterial Interactions	JA Leigh, DL Coplin	46:307-46
Genetics of Competition for Nodulation of Legumes	EW Triplett, MJ Sadowsky	46:399-428
Signaling and Host Range Variation in Nodulation	J Dénarié, F Debellé, C Rosenberg	46:497-531
Genetically Engineered Protection Against Viruses in Transgenic Plants	JH Fitch, RN Beachy	47:739-63
VIROLOGY		
Replication Cycle of <i>Bacillus subtilis</i>	PP Hoet, MM Coene, CG Cocito	46:95-116
Hydroxymethyluracil-Containing Phages	JM Taylor	46:253-76
The Structure and Replication of Hepatitis Delta Virus	RB Wickner	46:347-75
Double-Stranded and Single-Stranded RNA Viruses of <i>Saccharomyces cerevisiae</i>		

894 CHAPTER TITLES

The Natural History and Pathogenesis of HIV Infection	HW Sheppard, MS Ascher	46:533-64
Treatment of the Picornavirus Common Cold by Inhibitors of Viral Uncoating and Attachment	MA McKinlay, DC Pevear, MG Rossmann	46:635-54
Human Immunodeficiency Virus and the Central Nervous System	DC Spencer, RW Price	46:655-93
Molecular Determinants of the Virulence and Infectivity of California Serogroup Bunyaviruses	C Griot, F Gonzalez-Scarano, N Nathanson	47:117-38
Genetic Manipulation of Negative-Strand RNA Virus Genomes	A Garcia-Sastre, P Palese	47:765-90
Comparative Molecular Biology of Lambdoid Phages	A Campbell	48:193-222
Human Papillomaviruses	H zur Hausen, E-M de Villiers	48:427-47
Environmental Virology: From Detection of Virus in Sewage and Water by Isolation to Identification by Molecular Biology-A Trip Over 50 Years	TG Metcalf, JL Melnick, MK Estes	49:461-87
Development and Application of Herpes Simplex Virus Vectors for Human Gene Therapy	JC Glorioso, NA DeLuca, DJ Fink	49:675-710
Viral Vectors in Gene Therapy	AE Smith	49:807-38
Live Attenuated Varicella Vaccine	AM Arvin, AA Gershon	50:59-100
Immunopathogenesis of HIV Infection	G Pantaleo, AS Fauci	50:825-54

